



MILL PLINTHS GUNITING REPAIRS

PADDINGTON GOLD MINE, 30 KM
NORTH OF KALGOORLIE

MAINTENANCE - CONCRETE REPAIRS

PROJECT

Paddington Gold Mine Mill Plinths Guniting Repairs

CLIENT

Norton Goldfields
Steve D'Souza 08 9080 6857

DURATEC CONTACT

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DESCRIPTION

Norton Goldfields engaged Duratec Australia to complete dry spray gunite (shotcrete) concrete repair works to SAG mill plinths, located at their gold mine near Kalgoorlie.

Given both the scale and location of these repairs, particularly proximity to pipework and services, spray application of repair mortar was deemed favourable over conventional form and pour methodology.

The scope included:

- ▶ A detailed survey to mark out all areas requiring repair.
- ▶ Break out of all spalled and/or delaminating concrete using jackhammers.
- ▶ Abrasive blast of all exposed steel using garnet to class 2.5 finish.
- ▶ Treatment of reinforcing bars with a zinc rich primer.
- ▶ Installation of galvanic anodes.
- ▶ Application of gunite using a shotcrete hopper.
- ▶ Application of a curing membrane.

HIGHLIGHTS

- ▶ 50m² of SAG mill plinth concrete surface area repaired without the need for plant shutdown.
- ▶ Repair depths of up to 150mm.
- ▶ Multiple pipes and surface run services left in positions while plinths were intricately repaired around them.



IMAGES (FROM TOP TO BOTTOM)

- ▶ Exposed reinforcement abrasive blasted and primed and hydration of existing concrete surface using soaker hose.
- ▶ Spray application of gunite by shotcrete hopper.
- ▶ Concrete surfaced to a smooth finish and cured.